

## SEQUENCE LISTING

<110> Banerjee, Subhashis  
 Taylor, Lori K  
 Spiegler, Clive E  
 Tracey, Daniel E  
 Chartash, Elliot K  
 Hoffman, Rebecca S  
 Barchuk, William T  
 Yan, Philip  
 Murtaza, Anwar  
 Salfeld, Jochen G  
 Fischkoff, Steven

<120> TREATMENT OF METABOLIC DISORDERS  
 USING TNF $\alpha$  INHIBITORS

<130> BPI-191

<140>

<141>

<150> 60/397,275

<151> 2002-07-19

<150> 60/411,081

<151> 2002-09-16

<150> 60/417,490

<151> 2002-10-10

<150> 60/455,777

<151> 2003-03-18

<160> 37

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Mutated human antibody

<400> 1

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
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Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Gly	Ile	Arg	Asn	Tyr
		20						25					30		
Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
		35					40					45			
Tyr	Ala	Ala	Ser	Thr	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50				55					60					
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65				70					75					80	
Glu	Asp	Val	Ala	Thr	Tyr	Tyr	Cys	Gln	Arg	Tyr	Asn	Arg	Ala	Pro	Tyr

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85 90 95  
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
 100 105

<210> 2  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Mutated human antibody

<400> 2  
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr  
 20 25 30  
 Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val  
 50 55 60  
 Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Lys Val Ser Tyr Leu Ser Thr Ala Ser Ser Leu Asp Tyr Trp Gly  
 100 105 110  
 Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120

<210> 3  
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<220>  
 <221> VARIANT  
 <222> 9  
 <223> Xaa = Thr or Ala  
 <223> Mutated human antibody

<400> 3  
 Gln Arg Tyr Asn Arg Ala Pro Tyr Xaa  
 1 5

<210> 4  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> VARIANT  
 <222> 12  
 <223> Xaa = Tyr or Asn  
 <223> Mutated human antibody

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<400> 4

Val Ser Tyr Leu Ser Thr Ala Ser Ser Leu Asp Xaa  
1 5 10

<210> 5

<211> 7

<212> PRT

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<223> Mutated human antibody

<400> 5

Ala Ala Ser Thr Leu Gln Ser  
1 5

<210> 6

<211> 17

<212> PRT

<213> Artificial Sequence

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<400> 6

Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val Glu  
1 5 10 15  
Gly

<210> 7

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

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<400> 7

Arg Ala Ser Gln Gly Ile Arg Asn Tyr Leu Ala  
1 5 10

<210> 8

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Mutated human antibody

<400> 8

Asp Tyr Ala Met His  
1 5

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<210> 9  
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<220>  
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<400> 9  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Ile Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Tyr  
 20 25 30  
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile  
 35 40 45  
 Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80  
 Glu Asp Val Ala Thr Tyr Tyr Cys Gln Lys Tyr Asn Ser Ala Pro Tyr  
 85 90 95  
 Ala Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
 100 105

<210> 10  
 <211> 121  
 <212> PRT  
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<220>  
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<400> 10  
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr  
 20 25 30  
 Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Asp Trp Val  
 35 40 45  
 Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val  
 50 55 60  
 Glu Gly Arg Phe Ala Val Ser Arg Asp Asn Ala Lys Asn Ala Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Thr Lys Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu Asp Asn Trp Gly  
 100 105 110  
 Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120

<210> 11  
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<220>  
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<400> 11

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Gln Lys Tyr Asn Ser Ala Pro Tyr Ala  
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<210> 12

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<212> PRT

<213> Artificial Sequence

<220>

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<400> 12

Gln Lys Tyr Asn Arg Ala Pro Tyr Ala  
1 5

<210> 13

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<400> 13

Gln Lys Tyr Gln Arg Ala Pro Tyr Thr  
1 5

<210> 14

<211> 9

<212> PRT

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<220>

<223> Mutated human antibody

<400> 14

Gln Lys Tyr Ser Ser Ala Pro Tyr Thr  
1 5

<210> 15

<211> 9

<212> PRT

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<220>

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<400> 15

Gln Lys Tyr Asn Ser Ala Pro Tyr Thr  
1 5

<210> 16

<211> 9

<212> PRT

<213> Artificial Sequence

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<220>  
<223> Mutated human antibody

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Gln Lys Tyr Asn Arg Ala Pro Tyr Thr  
1 5

<210> 17  
<211> 9  
<212> PRT  
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<220>  
<223> Mutated human antibody

<400> 17  
Gln Lys Tyr Asn Ser Ala Pro Tyr Tyr  
1 5

<210> 18  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Mutated human antibody

<400> 18  
Gln Lys Tyr Asn Ser Ala Pro Tyr Asn  
1 5

<210> 19  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Mutated human antibody

<400> 19  
Gln Lys Tyr Thr Ser Ala Pro Tyr Thr  
1 5

<210> 20  
<211> 9  
<212> PRT  
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<220>  
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<400> 20  
Gln Lys Tyr Asn Arg Ala Pro Tyr Asn  
1 5

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<210> 21  
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<400> 21  
Gln Lys Tyr Asn Ser Ala Ala Tyr Ser  
1 5

<210> 22  
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<223> Mutated human antibody  
  
<400> 22  
Gln Gln Tyr Asn Ser Ala Pro Asp Thr  
1 5

<210> 23  
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<400> 23  
Gln Lys Tyr Asn Ser Asp Pro Tyr Thr  
1 5

<210> 24  
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<400> 24  
Gln Lys Tyr Ile Ser Ala Pro Tyr Thr  
1 5

<210> 25  
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<400> 25

Gln Lys Tyr Asn Arg Pro Pro Tyr Thr  
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<210> 26

<211> 9

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<223> Mutated human antibody

<400> 26

Gln Arg Tyr Asn Arg Ala Pro Tyr Ala  
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<210> 27

<211> 12

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<223> Mutated human antibody

<400> 27

Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu Asp Asn  
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<210> 28

<211> 12

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<220>

<223> Mutated human antibody

<400> 28

Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu Asp Lys  
1 5 10

<210> 29

<211> 12

<212> PRT

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<220>

<223> Mutated human antibody

<400> 29

Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu Asp Tyr  
1 5 10

<210> 30

<211> 12

<212> PRT



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<213> Artificial Sequence

<220>

<223> Mutated human antibody

<400> 30

Ala	Ser	Tyr	Leu	Ser	Thr	Ser	Ser	Ser	Leu	Asp	Asp
1				5					10		

<210> 31

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Mutated human antibody

<400> 31

Ala	Ser	Tyr	Leu	Ser	Thr	Ser	Phe	Ser	Leu	Asp	Tyr
1				5					10		

<210> 32

<211> 12

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<213> Artificial Sequence

<220>

<223> Mutated human antibody

<400> 32

Ala	Ser	Tyr	Leu	Ser	Thr	Ser	Ser	Ser	Leu	His	Tyr
1				5					10		

<210> 33

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Mutated human antibody

<400> 33

Ala	Ser	Phe	Leu	Ser	Thr	Ser	Ser	Ser	Leu	Glu	Tyr
1				5					10		

<210> 34

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Mutated human antibody

<400> 34

Ala	Ser	Tyr	Leu	Ser	Thr	Ala	Ser	Ser	Leu	Glu	Tyr
1				5					10		

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<210> 35  
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<400> 35  
 Val Ser Tyr Leu Ser Thr Ala Ser Ser Leu Asp Asn  
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<210> 36  
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 atcacttgct gggcaagtca gggcatcaga aattacttag cctgggtatca gcaaaaacca 120  
 gggaaagccc ctaagctcct gatctatgct gcatccactt tgcaatcagg ggtcccatct 180  
 cggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag cctacagcct 240  
 gaagatgttg caacttatta ctgtcaaagg tataaccgtg caccgtatac ttttggccag 300  
 gggaccaagg tggaaatcaa a 321

<210> 37  
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 <212> DNA  
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<220>  
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<400> 37  
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 tcctgtgcgg cctctggatt cacctttgat gattatgcc a tgactgggt ccggcaagct 120  
 ccagggaagg gcctggaatg ggtctcagct atcacttgga atagtgggtca catagactat 180  
 gcggactctg tggagggccg attcaccatc tccagagaca acgccaagaa ctccctgtat 240  
 ctgcaaata ga acagtctgag agctgaggat acggccgtat attactgtgc gaaagtctcg 300  
 taccttagca ccgcgtcctc ccttgactat tggggccaag gtaccctggt caccgtctcg 360  
 agt 363